MODEL #

HSW44C+

CAT5 MATRIX SWITCHER

4x4 Switcher

1080P HDMI 3D READY

The HSW44C+ 4×4 HDMI & full 3D support over CAT5 Matrix, with IR Pass-through, provides the most flexible and cost effective solution in the market, to route high definition video sources + multi-channel (up to 7.1-channel) digital audio, from any of the four HDMI sources to the remote displays, at the same time.

KEY FEATURES

- 3D ready
- HDMI™ & HDCP compliant
- Allows any source to be displayed on multiple displays at once
- Supports 7.1 channel digital audio
- Matrix master can switch every output channel to any HDMI™ input by push button, IR remote control, or RS-232 control
- Extends video signal up to 165 feet over CAT5e at 1080p, 1080i, and 720p
- Allows control of main matrix center through control line at remote receiver
- Allows control of local HDMI™ sources such as DVD and TiVo® by IR extender through control path at remote receiver
- Easy installation with rack-mounting and wall-mounting designs for master and receiver respectively
- Network control via RS-232
- Remote powering of HSMR receivers
- Remote HSMR receivers have digital readout of selected channel

*Includes four CAT5 to HDMI receivers

SPECIFICATIONS

	HSW44C +	HSMR +
Unit Type:	4x4 true Matrix Transmitter (TX)	Receiver (RX)
HDMI Compliance:	HDMI™ 1.3c	HDMI™ 1.3c
HDCP Compliance:	Yes	Yes
Video Bandwidth:	Single-link 225MHz (6.75Gbps)	Single-link 225MHz (6.75Gbps)
Video Support:	480i/480p/720p/1080i/1080p60	480i/480p/720p/1080i/1080p60
Audio support:	Surround sound (up to 7.1ch) or stereo digital audio	Surround sound (up to 7.1ch) or stereo digital audio
HDMI over CAT5 transmission range:	Full HD (1080p) – 35m (115ft) (CAT5e) 130ft (40m) [CAT6] HD (720p/1080i) – 50m (165ft) (CAT5e) 180ft (55m) [CAT6]	Full HD (1080p) – 35m (115ft) [CAT5e] 130ft (40m) [CAT6] HD (720p/1080i) – 50m (165ft) [CAT5e] 180ft (55m) [CAT6]
HDMI equalization:	---	8-level digital rotary control
TMDS signal:	1.2 Volts [peak-to-peak]	1.2 Volts (peak-to-peak)
Input DDC signal:	5 Volts [peak-to-peak, TTL]	5 Volts (peak-to-peak, TTL)
ESD protection:	[1] Human body model – ±15kV (air-gap discharge) & ±8kV (contact discharge) [2] Core chipset – ±8kV	[1] Human body model – ±15kV (air-gap discharge) &±8kV (contact discharge) [2] Core chipset – ±8kV
PCB stack-up:	4-layer board [impendence control]	Differential 100Ω; single 50Ω
Input:	4x HDMI™ • 1x RS-232	1x RJ-45 (TMDS) • 1x RJ-45 (DDC) 1x IR socket for receiver

	HSW44C +	HSMR +
Output:	4x RJ-45 (TMDS) • 4x RJ-45 (DDC) 5x IR socket for IR blaster	1x HDMI™
HDMI Input selection:	Push button/IR remote control/RS-232	Push button/IR remote control
HDMI source control:	Controllable via IR pass-through from IR receiver at RX to IR blaster at TX	–
IR remote control:	Electro-optical characteristics: =25° Carrier frequency: 20-60kHz	Electro-optical characteristics: =25° Carrier frequency: 20-60kHz
HDMI connector:	Type A (19-pin female)	Type A (19-pin female)
RJ-45 connector:	WE/SS 8P8C with 2 LED indicators (TMDS & DDC channels)	WE/SS 8P8C with 2 LED indicators (TMDS & DDC channels)
RS-232 connector:	DE-9 (9-pin D-sub female)	DE-9 (9-pin D-sub female)
USB connector:	–	---
3.5mm connector:	1/8′ jack for IR blaster (20-60kHz) (IR Main) IR control on all source devices (IR PASS-THROUGH 1-8) IR control on individual source device	1/8′ jack for IR blaster (20-60kHz) (IR RECEIVER) Receives IR commands from remote control
DIP switch:	(SW1-SW8) 2-pin for EDID & audio mode (SW Main) 4-pin for operation & firmware	---

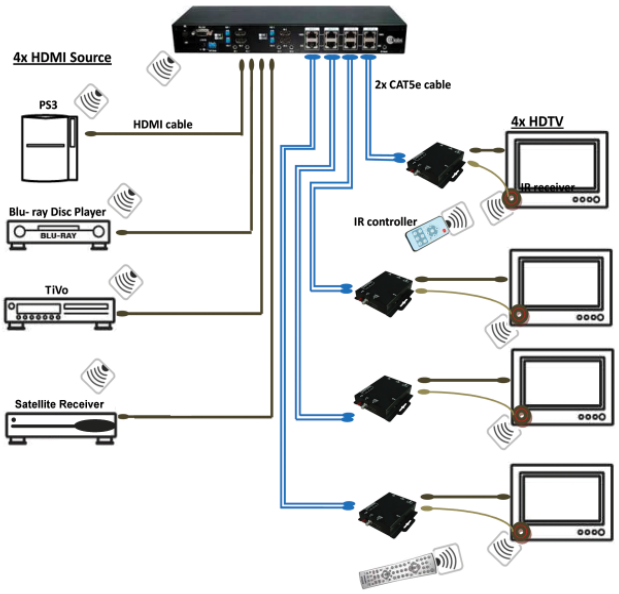
MECHANICAL SPECIFICATIONS

HSW44C + : Main Unit

Enclosure:	metal case
Unit Dimensions:	13.4′ x 4.3′ x 1.7′ (340x110x44m)
Unit Weight:	2.7 lbs (1220 g) (TX)
Package Weight:	7.0 lbs (3.2 kg) (TX + 4 RX)
Mounting:	1U rack-mounth with ears
Power supply:	5V 6A DC/100-240VAC IN
Power consumption:	20 watts (max)
Operation temperature:	32~104° F (0-40° C)
Storage temperature:	-4~140° F (-20~60° C)
Relative humidity:	20~90% RH (no condensation)

HSMR + : Remote Receiver

Enclosure:	metal case
Dimensions:	3.3′ x 3.5′ x 1′ (85x90x25mm)
Weight:	6.3 oz (180 g)
Mounting:	Wall-mount with screws
Power Consumtion:	1.5 Watt (max)
Operation temperature:	32~104° F (0~40° C)
Storage temperature:	-4~140° F (-20~60° C)
Relative humidity:	20~90% RH (no condensation)

Package Contents:

1 x HSW44C +
2 x 1U rack mounting-ear
1 x IR remote controller
1 x User Manual
4 x HSWMR +
4 x IR blaster 4x IR receivers
8 x Wall-mounting screws
1 x AC power cord